



11/402,278

TITLE OF THE INVENTION

Bra with Reinforced Cups

APPLICANT

Charles J. Farrell

BACKGROULD OF THE INVENTION

1. Field of the Invention:

2. The invention broadly relates to bras.

3. Prior Art:

4. A conventional bra shown in Fig. 1 includes a horizontal adjustable back strap 10
5. attach to the bottom edge a of a pair of cups 11 and 12, and a pair of vertical
6. adjustable shoulder straps 13 and 14 attached to the tops of cups 11 and 12. Cups 11
7. and 12 are made of a relatively thin material that are prone to sagging under the
8. weight of large breasts. Therefore, such bras do not provide the necessary support.
9. By using cup rings with the shoulder straps, slide buckles the shoulder straps will pull
10. evenly on the breast rings.

17. The present bra includes a horizontal back strap and a pair of cups. Vertical shoulder
18. Straps are connected between the tops of cups and back strap. Non-stretchable
19. Reinforcing rings are attached to the fronts of cup concentric with nipple areas there-
20. On || The rings have open centers for comfort|| and the open centers are filled with
21. Fabric of the cup portion; non-stretchable suspension strips are connected between
22. Respective rings and shoulder straps. The straps are sized to suspend rings at pre-
23. Determined positions relative to the top ends of the cups to prevent the forward
24. Portions of the cups from sagging under the weight of large breasts. The rings
25. maintain the shapes of the cups to prevent them flattening the breasts when the
26. shoulder straps are tightened. A second embodiment includes shoulder straps which
27. are movable upward and downward through slide buckles attached to the tops of the
28. cups for adjusting the lifting of the cup, the slide buckles are stitch to the top of cup.
29. The shoulder straps are the only moving part that moves through the slide buckles to
30. the breast rings. The cup rings are place out on the breasts about center of the cup
31. rings are 3 inches from the nipple to the outer edge of cup rings edges. From 3 to 5
32. inches of the cup rings to the nipple area is where you find the support that is needed.
33. Larger cup seized will extend the measurements further out. Between the nipple and
34. chest is where the center is this for all cup sized. In accordance with a first shown in
35. the front perspective view of Fig.2, the present bra includes a horizontal back strap 20
36. for positioning around a torso. Back strap 20 may have a front closure or a back
37. closure, and may be adjustable in length. Back strap 20 is attached to the bottom
38. edges of a pair cups 21 and 22 arranged for supporting a pair of breasts. Vertical
39. shoulder straps 23 and 24 are connected between the tops of cups 21 and 22 and back
40. strap 20 for strapping around a pair of shoulders. Non-stretchable reinforcing rings 25
41. and 26 are attached to the fronts of cups 21 and 22 concentric with nipple areas 27,28
42. there on, rings 25 and 26 are made of a more rigid material than the cups, and [have
43. open center for comfort] filled with fabric material; no stretchable suspension strips 29
44. and 30 are connected between respective rings 25 and 26 and shoulder straps 23 and
45. 24. Rings 25 and 26 and strips 29 and 30 are fixedly attached to cups 21 and 22, for
46. example, by stitching 31. Alternatively, other means of attachment may be employed.
47. Strips 29 and 30 are preferably integral extensions of shoulder straps 23 and 24,
48. although they may be separate from straps 23 and 24 but fixedly connected to them.
49. Strips 29 and 30 are sized to suspend rings 25 and 26 {at predetermined positions} are
50. place about center of breasts. Relative to the top ends of cups 21 and 22 to prevent
51. the forward portions of cups 21 and 22 from sagging under the weight of large breasts
52. rings 25 and 26 maintain the shapes of cups 21 and 22 to prevent them from flattening
53. the breasts when shoulder straps 23 and 24 are tightened. A second embodiment of the
54. present bra is shown in Figs. 3-4. In Fig. 3, it includes a horizontal back strap 40 for
55. positioning around a torso. Back strap 40 may have a front closure, and may be
56. adjustable in length. Back strap 40 is attached to the bottom edges of a pair of cups
57. 41 and 42 arranged for supporting a pair of breasts. Slide buckles 43 and 44 are
58. fixedly attached to the tops of cups 41 and 42. Vertical shoulder straps 45 and 46
59. are connected between slide buckles 43 and 44 and back strap 40 for strapping around

60 a pair of shoulders. Non-stretchable reinforcing rings 47 and 48 are attached to
61 the front of cups 41 and 42 concentric with nipple areas 49 and 50 there on.
62 rings 47 and 48 are fixedly attached to cups 41 and 42, for example, by
63 stitching 51. Alternatively, other means of attachment may be employed. Rings
64 47 and 48 are made of a more rigid material than cups, and {have open centers
65 for comfort,} the open centers are filled with fabric of the cup portion. The lower
66 ends of shoulder straps 45 and 46 are fixedly connected to respective rings 47 and
67 48, but are not fixedly connected to cups 41 and 42. The tops of cups 41 and 42
68 are movable along shoulder straps 45 the slide buckles 43 and 44 to adjust the
69 distance between rings 47 and 48 and the tops of cups 41 and 42, and thus control
70 the lifting of cups 41 and 42. In the example shown in Fig. 4, shoulder straps 45 and
71 46 are shortened between rings 47 and 48 and the tops of cups 41 and 42 for lifting
72 the forward portions of cups 41 and 42 to prevent the cups from sagging under the
73 weight of large breasts. Rings 47 and 48 maintain the shapes of cups 41 and 42 to
74 prevent them from flattening the breasts when shoulder straps 45 and 46 are tightened.
75 shoulder straps 45 and 46 can also be lengthened between rings 47 and 48 and the
76 tops of cups 41 and 42 for reducing lifting when desired.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

- 1 Fig. 1 is a front perspective view of a prior art bra.
- 2 Fig. 2 is a front perspective view of the present bra with reinforced cups.
- 3 Fig. 3 is a front perspective view of a second embodiment of the present bra.
- 4 Fig. 4 is a front perspective view of the bra of Fig. 3 with the shoulder straps tightened

DRAWING REFERENCE NUMERALS

14 10. Back Strap	11. Cup
15 12. Cup	13. Shoulder Strap
16 14 Shoulder Strap	20. Back Strap
17 21. Cup	22. Cup
18 23. Shoulder Strap	24. Shoulder Strap
19 25. Ring	26. Ring
20 27. Nipple Area	28. Nipple Area
21 29. Strip	30. Strip
22 31. Stitching	40. Back Strap
23 41. Cup	42. Cup
24 43. Slide Buckle	44. Slide Buckle
25 45. Shoulder Strap	46. Shoulder Strap
26 47. Ring	48. Ring
27 49. Nipple Area	50. Nipple Area
28 51. Stitching	

SCOPE

1 Although the above description is specific, they should not be considered as
2 limitations on the scope of the invention, but only as examples of the embodiments.
3 Many variations are possible within the teachings of the invention. For example,
4 different attachment methods, fasteners, materials, dimensions, etc. can be used unless
5 specifically indicated otherwise. The relative positions of the elements can vary, and the
6 shapes of the elements can vary. Therefore, the scope of the invention should be
7 determined by the appended claims and their legal equivalents, not by the examples
8 given.

1	TITLE OF THE INVENTION
2.	Bra with Reinforced Cups
3.	APPLICANT
4.	Charles J. Farrell
5.	1,019,537. 3/5/1912: A.SCHWENKLER,NEE DEEGE.
6.	1,664,926. 4/3/1928: H.IMERSHEIN ET AL.
7.	2,015,151. 9/24/1935. H.MOITY
8.	2,406,576. 8/27/1946. H.AX
9.	2,452,345. 10/26/1948. C.ANSELMO
10.	2,523,715. 9/26/1950. I. PANES
11.	2,530,829. 11/21/1950. A.LICHT
12.	2,986,143. 5/30/1961. O.ERTESZEK
13.	3,200,821. 8/17/1965. R.F.ANDERSON
14.	6,180,178. 1/30/2001. K. W. VOGT
14.	3,710,800. 1/16/1973. VIRGINIA M.CAREY
15.	5,971,834. 10/26/1999 MICHAEL D.MURRAY
16.	6,180,178 B1 1/30/2001 KIRKLAND W.VOGT

BACKGROUND OF THE INVENTION

The invention broadly relates to bras.

This invention relates to an improved conventional bra shown in Fig. 1 includes a horizontal adjustable back strap 10 attached to the bottom edges of a pair of cups 11 and 12, and a pair of vertical adjustable shoulder straps 13 and 14 attached to the tops of cups 11 and 12. Cups 11 and 12 are made of a relatively thin material that are prone to sagging under the weight of large breasts. Therefore, such bras do not provide the necessary support. By pulling the shoulders straps through the slide buckles along with breasts rings the shoulder straps will pull evenly on the breast rings. Base on my drawings.

U.S. Pat. No. 1,019,537 My response to A. SCHWENKLER patent is: He has a circle shoulder strap and mine has a single strap on each shoulder runs from top of the cup to the back. Mr. SCHWENKLER has seven straps in his invention, I only have two shoulder straps and two breast rings that circle out on the breast cup. Mr. SCHWENKLER rings are next to the women chest. He has several adjustment to make. My straps runs through slide buckles to rings that circle the breast, which the rings are place farther out from the chest. The key here is Mr. SCHWENKLER rings are next to the women chest where my rings are place farther out from the chest about center. I have shoulder straps on each shoulder, not circler one. The most important fact is Mr. SCHWENKLER rings are at the base of the breast. Bras today do not have rings around the breasts for support, which are tied to the shoulder straps for lift.

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U.S.1,664,926 H. IMERSHEIN

Attached to the shoulder straps are two additional straps, called supplementary straps; attached to the bust supporter. Everything is tied around the cups rings at the base of the breast. The bust supporter 13 and 14 comprise segments member 23 of any expansion material. The segment member 23 are position in a circular or oblong rings, shaped aperture by extending covering 24, around segment member 23, sewn, stitched, attached to breast support 13 and 14. Adjustment I see is made by moving 25 to aperture 26 as to provide equal expansion thereof. The number are base off his drawings

Bras today have rings around the breast cup for support or lift.

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U.S. Pat. No. 2,015,151 H. MOITY

My invention works by placing rings around the cups. This is a predetermined position about center from the chest to the nipples. H. MOITY rings are place half way around the chest on the inside of the bra. I have shoulder straps that are connect to the back of the bra to the front of the cup. I have slide buckles where the straps run through it. H. MOITY has no slide buckles. My slide buckles are attached the top of the cup. The straps from the slide buckles is extended to the cup rings, and stitched to the rings. The shoulder straps run through slide buckles to cup rings, and stitched to the rings. The cup rings circle breast farther out on the breast cup, This is where the lift of the breast come from. My .invention will not spread apart or bring together the breast. My invention will lift the weight off the back and shoulder where today bras or past bras did not.

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U.S. PAT. NO. 2,406,576 H. AX

H. AX uses loops (rings) that are passed under the breast of the wearer. The loops are being entirely concealed in the brassiere body. The loops according to H. AX are maintained in a spread-apart or natural position. This is done by detachably hooks by the means of eyes that hooks are attached too. My invention uses two straps to lift the breast, H. AX uses only the loops to spread-apart the breast for support. I have two cup rings, two shoulder straps. H. AX loops are build into the cups that circle the breast at the base of the breast. Mine circle the breast at a predetermined position from center out on the breast. H AX has no shoulder straps running down to the loops to support the breast cup. With cup rings, shoulder straps attached to the cup rings using the slide buckles to adjust for lift and which the wearer can adjust as much lift she wants. The eyes are attached to a pad sewn at proper places on the brassiere, where the shoulder straps are connected the same way. You are only limited support to place the loops by the number of eyes that are attached to the pad. Mine has no limits.

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U.S. PAT. 2,452,345 C. ANSELMO

All basic bra designs have a pair of cups support of the breast, horizontal back straps, shoulder straps. C. ANSELMO designs is to remove pressure from the nipples. C ANSELMO is providing reinforced the cup lining with silk satin or any soft fabric. C ANSELMO invention is comfortable to the wearer and present an appearance to the wearer, he has a open center were the nipples protrude. C. ANSELMO states that the brassiere will act as an uplift of the breast. C . ANSELMO makes no statement of using cup rings for support around the breast.

The different between my invention and C. ANSELMO is I have a single strap that runs from the slide buckles to the top of cup. The strap run from the slide buckle to the cup ring. There it is stitched to the cup ring.

BACKGROULD OF THE INVRNTION

This invention broadly relates to bras.

This invention relates to an improved connectional bra shown in Fig. 1 includes a horizontal adjustable back strap 10 attached to the bottom edges of a pair of cups 11 and 12, and a pair of vertical adjustable shoulder straps 13 and 14 attached to the top of cups 11 and 12. Cups 11 and 12 were of a relatively thin material that are prone to sagging under the weight of large breast. Therefore, such bras do not provide the necessary support. By pulling the shoulder straps through the slide buckles along with the breasts rings the shoulder straps will evenly lift the breast rings. Base on my drawings.

U.S. PAT. 2,523,715 I. PANES

His cups rings are attached at the upper edge of the cup. The rings are attached to the outer edges of the body band which is at the base of the breast or chest. I PANES cup rings covers only half of the breast. The rings are attached two a second shoulder strap that form a inverted v loops to receive the slide buckles. The inverted v loops is then attached to the shoulder straps for support. I PANES inverted v loops are loosely arranged for sliding through the textile material.

All basic bra designs have a pair of cups support of the breast, horizontal back straps, shoulder straps. The different between my invention and I. PANES is I have shoulder straps that runs from the slide buckles to the top of cup. That same shoulder straps runs to the cup rings were it is stitch to the cup ring. Lift is cause by sliding the shoulder strap through the buckle. By appearance the wearer will not know the different between a conventional bra and my invention. The cup rings circle the breast at a predetermined position about center from the chest to the nipples.

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U.S. PAT. 2,530,829 A. LICHT

The different between A LICHT and mine is that there is no adjustment I found between the shoulder strap and the cup rings. There is no slide buckles to adjust for support, without no slide buckles to lift the breast. A LICHT shoulder support are per-site. The rings are build into the slip with no adjustment or no way to adjust for lift of the breast. My shoulder straps go through the slide buckles, are attached to the cup rings for support. The slide buckles are attached to the top of the cups. This will cause the breast to lift when you pull on the shoulder straps when tighten.

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This invention relates to an improved connectional bra shown in Fig. 1 includes a horizontal adjustable back strap 10 attached to the bottom edges of a pair of cups 11 and 12, and a pair of vertical adjustable shoulder straps 13 and 14 attached to the top of cups the weight of large breast. Therefore, such bras do not provide the necessary support. By pulling the shoulder straps through the slide buckles along with the cup rings the shoulder straps will evenly lift the breast. Based on my drawings.

U.S. PAT. 2,986,143 O. ERTESZEK

I have found that the primary source of support are the straps that are connected at the buckles, the shoulder straps which are 12 and 27. More support is given by strap 12 to the top of the cup frame, are distributed by 28 and 29 attached to the taps 17 and 20. He is saying the two straps from the shoulder straps are preferably distributed more support to the cups. He states that the invention is concerned essentially with securing and maintaining an elastically close fit of the brassiere to the wearer and with comfort, with stretching of back strap during movement of the wearer for a better fit. He is using elastically expandable that are connected to the cup lower portion and operable to expand during elastic expansion of the back strap. This means exerting tension on the left and right of the brassiere. The invention is using a centrally aperture contoured fabric cup structure in each of the left and right section, using elastic material. There is a split between each segments where by the segment are moveable relative to one another at the cup lower portion preferably at the inside of the cup, is oriented to stretch elastically and directionally left and right by the wearer. These use rectangular sheet of elastic fabrics stitched to the segment, where stitching continuing along convergent lines below the elastic material; all of this is inside of the cup. The elastically expandable fabric assures close fitting conformance of the cup particularly the segment to the wearer at the lower inside of the cup; close fitting is caused by stretching the back straps which will exert left, right tension on the cup; during movement they are pulled toward each other by the elastic strip.

My invention has no elastic material build inside the cup, nor do I have retaining segment that formed in the lower portion of the cup. I have shoulder straps that are connected to the back strap, are connected to the top of the cups, slide buckles, which are then connected to the cup rings for lift. O. ERTESZEK has no cup rings out on the cup, the shoulder strap does not connect to the cup rings. The shoulder straps run through the slide buckles down to the cup rings, are stitched to the cup rings. When the wearer adjusts the strap through the slide buckles to lift the breast all weight is removed, from the back shoulder. Breast sagging will also disappear that will give a fuller figure. The cup rings are placed out on the breast cup itself for true support. O. ERTESZEK support is all in the cup itself, using elastic material, stretching by movement of the wearer with the cup lower

portion by the means of the back strap exerting left, right tension on the brassiere.

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U.S. PAT. NO. 3,200,821 R. F. ANDERSON

R. F. ANDERSON invention is a invention that doesn't use breast rings. R. F. ANDERSON straps are place on the top of the cups edges. R. F. ANDERSON is using three buckles with a tabular portion, which are strap supports, secured by buckles, which are sewn to the edges. My invention uses shoulder straps, cup rings that circle the breast out on the cup about center of breast. By pulling on the straps through the slide buckles you can lift the breast, and remove the weight from the shoulders. Mine has a clean look that leaves no puckering or wrinkling wren you pull on the straps for lift for better support.

BACKGROULD OF THE INVENTION

The invention relates to an improved conventional bra shown in Fig. 1 includes a horizontal adjustable back strap 10 attached to the bottom edges of a pair of cups 11 and 12, and a pair of vertical shoulder straps 13 and 14 attached to the tops of cup 11 and 12. Cups 11 and 12 were made of a relatively thin material that is prone to sagging under the weight of large breasts. Therefore, such bras do not provide the necessary support. By pulling the shoulder straps through the slide buckles along with breast rings the shoulder straps will pull evenly on the breast rings. Base on my drawings.

U. S. PAT. 6,180,178 K. W. VOGT

K. VOGT invention is all about polyurethane coating, where on certain areas of the target fabric surface. Which for breast rings this would keep the fabric from lengthening or from stretching. K. VOGT does not state where the rings are place on the bra? I see the rings at the chest of the wearer. The shoulder straps have no adjustment or there are no other straps or buckles use for support. Polyurethane latex was applied at the shoulder and around the cup area, under the cup. I see no mention of rings place on the cups? Polyurethane is just coating certain areas of the target fabric surface.

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U.S. PAT. 3,710,800 V. M. CAREY

Virginia CAREY invention design is for a person who has gone through prosthesis. The other side of her invention is design to be preferably worn with another support-type of garment under the brassiere. The inner bra or garment has no cups at all. The breast drop entirely through the encircling loop of the undergarment. If the undergarment is to tight or to loose you adjust by clipping the pivot where the shoulder straps connect. Then you have to rest it at another place. Other adjustment may be accomplished by lifting the support strap or structure by taking the loop and securing it to a conventional bra strap which is worn over it. V. CAREY rings circle the breast at the bottom edge of the breast. There are no slide buckles to adjust for lifting or lowering of the breast. I have two shoulder straps that run down to the top of cup; two sliding buckles that can lift or lower the breast by pulling on the straps. The shoulder straps are then stitched to the cup rings for lift. The cup rings are place out on the breasts about center of cup or 5 inches from nipples to cup edges. From 3 inches of cup rings to the nipple area is where you find the support that needed.

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U. S. PAT. 5,971,834 M. D. MURRAY

M. MURRAY uses shoulder straps 12 to connect to centerpiece which is positioned between the cups. The top portion has a pair of connected adjustable straps where the bottom has a cup under wire. M. MURRAY is using a cup center piece position between the cups where under wire are connected to the center piece for support. The cups are then connected to the body encircling straps, shoulder straps. The shoulder straps are connected to the strap fastener for increased or decreased for adjustment. The inner cup support straps, outer cup support straps are all attached to straps fastener 16. By pulling on 24, 26 and 32 you can allow for a tighter fit from the cups. You can also adjust the center piece or the shoulder buckle are adjustable too. M. MURRAY straps do not form a ring around the breast they are on top and bottom of the cups. I have two shoulder straps that run down to the top of the cups. The slide buckles are attached to top of the cup. The shoulder straps then run down to the cup rings, where they are stitched to the cup rings. By pulling on the shoulder straps the breast will lift. My cup rings are out on the breast, the rings circle the breast at predetermined positions about center of the cup. I use no wires, hooks in my bras. The wearer will have no sore back, shoulder.